



NORFOLK COMAEWINGLANT BRIEF



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***Ready. Resourceful.
Responsive!***

**MATT MULLINS
CDR, USN
16 JULY 2003**

- Background/Overview
- SNT Implementation
 - Databases
 - AIT
- AIT
- Aviation Rollout
- Contracts
- Future with DLA
- SNT Web Page - Capabilities
- Summary

How SNT Got Started

Background/Overview

Aviation Maintenance-Supply Readiness (AMSR) Review - 1998

Challenge:



**Lower Maintenance & Supply
Cost**



Increase Readiness



Background/Overview

Definition: *Closed-loop, cradle-to-grave tracking maintenance critical, serialized **components**, providing asset visibility and material status, and enabled by automatic identification technology*

Major Benefits:

Maintenance

- Identify Maintenance Deficiencies
- Measure Reliability
- Accurate Record Configuration
- Identify Latent Defects
- Determine Training Requirements
- Assist Engineering Investigations

Supply

- Assess Repair Turn Around Time
- Decrease Misidentification and Loss
- Warranty Management
- Predict Parts Requirements
- Better Procurement Decisions
- Measure Reliability
- Achieve Total Asset Visibility

SNT Consists of Two Pillars

Implementation

SNT requires two components

SNT

Data Base Access

WMRS/A-ORS
eRMS/WMPS
UICP
WEB-CAV
CAV-ORM
CAV-Navy
FACTS
OOMA/OIMA
R-Supply
IBS

AIT

CMB
2D Data
matrix
2D PDF417
ISO15418/15
434
MILSTD129
MILSTD130
MSL
IRRD

FIRST

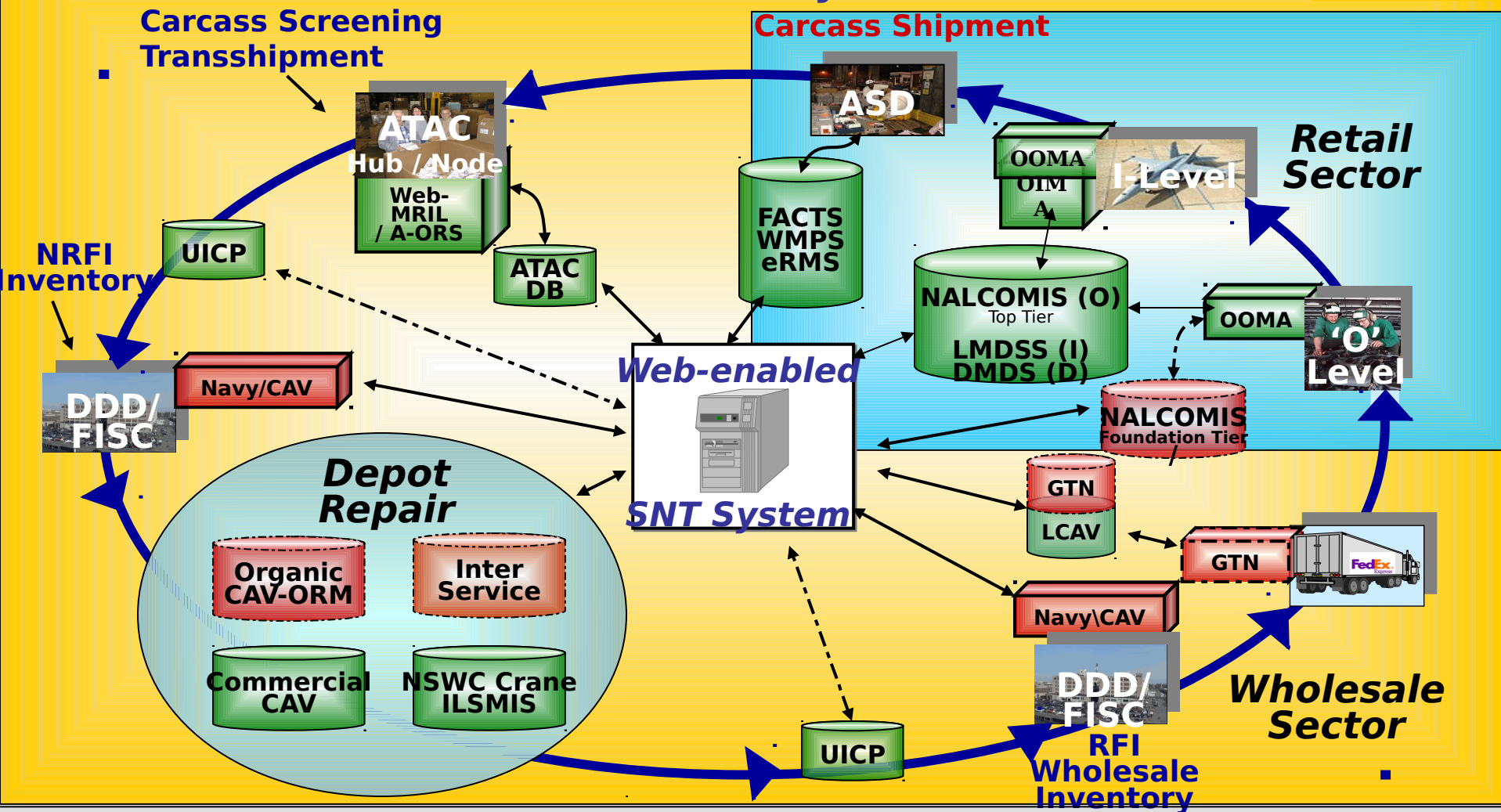
Live
access
to
databases
via the
SNT Web-
enabled
portal.

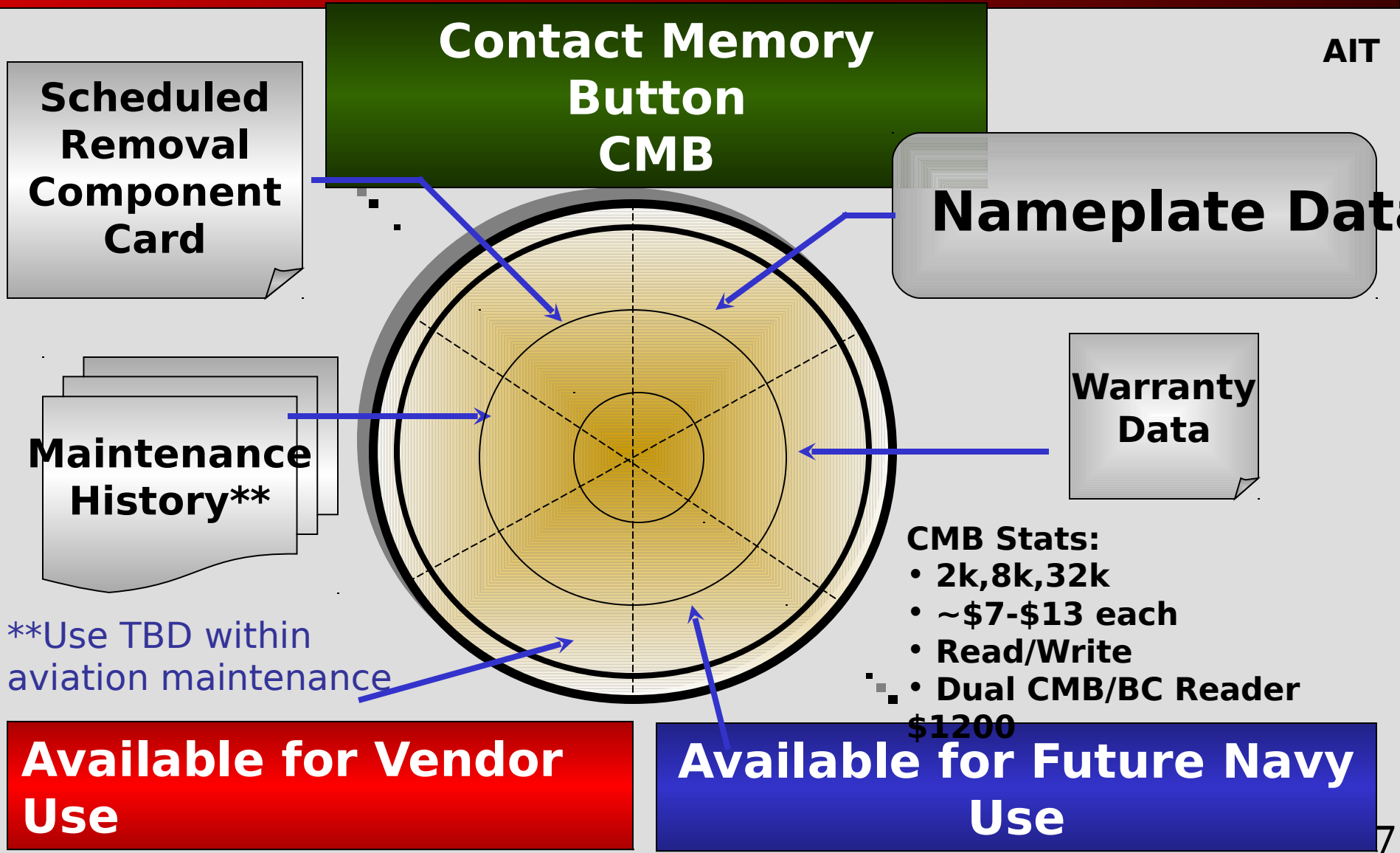
SECOND

Automatic
Identification
Technology
(AIT) is used
by the SNT
to maintain
data accuracy

Information Systems

Overview





Supply - Aviation 5 Year Plan

Aviation Rollout

T/W/S	Total Number Aircraft	Components per Aircraft	Total Number of Components (W/ 25% spares)	Total CMB Cost	Contractor Installation Cost	Total Engineering Document Cost	Total AIT Cost
MH-53E	46	170	9,775	\$152,783.25	\$272,412.00	\$136,000.00	\$605,932.55
CH-53E	164	170	34,850	\$544,705.50	\$817,236.00	\$136,000.00	\$1,597,820.10
CH-53D	44	104	5,720	\$89,403.60	\$272,412.00	\$83,200.00	\$486,995.50
UH-60	342	300	128,250	\$2,004,547.50	\$3,268,944.00	\$240,000.00	\$5,665,423.90
UH-60A	11	400	55,500	\$867,465.00	\$708,271.00	\$320,000.00	\$1,712,510.96
UH-60A	5	469	9,380	\$146,609.40	\$163,447.20	\$375,200.00	\$1,712,510.96
UH-60A	194	196	47,530	\$742,893.90	\$898,959.60	\$156,800.00	\$1,757,972.56
UH-60A	126	132	20,790	\$324,947.70	\$599,306.40	\$105,600.00	\$1,030,854.10
UH-60A	80	70	20,125	\$314,553.75	\$926,200.80	\$56,000.00	\$1,383,946.57
UH-60A	46	70	6,913	\$108,042.38	\$435,859.26	\$56,000.00	\$609,546.56
EA-6B	124	144	22,320	\$348,861.60	\$1,035,165.60	\$115,200.00	\$1,659,147.94
MMCV/HV-2	458	203	116,218	\$1,816,479.53	\$3,922,732.80	\$162,400.00	\$6,254,890.39
AV-8	172	921	198,015	\$3,094,974.45	\$871,718.40	\$736,800.00	\$4,899,087.53
F-14A/B/D	193	200	48,250	\$754,147.50	\$871,718.40	\$160,000.00	\$1,940,564.86
P-3's	264	75	24,750	\$386,842.50	\$1,797,919.20	\$60,000.00	\$2,452,987.68
Cargo	295	175	64,531	\$1,008,623.44	\$2,724,120.00	\$140,000.00	\$4,297,527.69
Trainers	515	129	83,044	\$1,297,973.81	\$817,236.00	\$103,200.00	\$2,399,150.46
E-2C	75	147	13,594	\$212,470.31	\$1,525,507.20	\$116,000.00	\$1,969,874.10
C-2A	38	145	6,888	\$107,651.63	\$217,929.60	\$116,000.00	\$461,500.85
F-18ABCD	745	200	186,250	\$2,911,087.50	\$4,794,451.20	\$160,000.00	\$8,327,383.34
F-18EF	548	240	164,400	\$2,569,572.00	\$2,179,296.00	\$192,000.00	\$5,240,602.10
Misc Support							\$2,805,000.00
Total			1,267,091	\$19,804,636.24	\$29,120,842.80	\$3,726,400.00	\$58,211,345.83

Total # of Items marked 1,267,091

SNT Implementation Cost = \$58,211,346

Steps to Marking Parts

Aviation Rollout

- 
- Identify Parts to be Marked
 - Get Approval
 - Update Drawings & Technical Manuals & Directives
 - Provide Configuration & ILS Support
 - Establish Plan for Marking
 - Plane Side
 - Warehouse (Wholesale & Retail)
 - Amend Repair Contracts/ New Items for Supply

**Contract No. N00383-02-G-010N-0017
H-53 Serial Number Tracking Statement of Work**

Contractor shall be responsible for implementation of the Serial Number Tracking / Automatic Identification Technology (SNT/AIT) Program. For the purpose of this contract, AIT consists of Contact Memory Buttons (CMB) and PDF 417 2D. The CMB will be used on the product itself. The PDF 417 2D barcode will be used on Package markings. The CMB reader/writer requires the capability to write to and read from a CMB, plus read PDF 417 2D and 3 or 9 barcode.



NAVAL SUPPLY SYSTEMS
COMMAND

Contracts



Package Marking



Mil-Std 129 PDF417
2D
ANSI MH 10

Cage: 02059
PN:102770-351
Ser: 6694
NSN 7025011415888
CONT: N00104-98-T-0023
Name: Magnetic Tape
U/I: EA
QTY: 1

Product Marking



Nameplate Data



CMB

CAGE: V23456
PN: 33489-12
NSN: 5835-01-141-5888
S/N: 45367
Cont: N00383-02-G010N-0017
Name: Main Rotor Blade

2D

AIT

Invoices

DD FORM 1348-1A, NOV 87 ISSUE RELEASE/RECEIPT DOCUMENT

1. TOTAL PRICE		2. SHIP PRICE		3. SHIP TO	
UNIT PRICE	DOLLARS	CTS			
55411.00	0055411	000		N975 12	563196
4. MARK FL:		NSC S14 1110 CA			
5. DOC DATE		6. NMFO		7. PART RATE	
01346					
8. QTY RECD		9. UNIT WEIGHT		10. UNIT CUB	
11. FREIGHT CLASSIFICATION NOMENCLATURE					
12. ITEM NOMENCLATURE					
VALVE ASSY					
13. TY CONT		14. NO CONT		15. TOTAL WEIGH	
16. RECEIVED BY		17. DATE RECEIVED		18. TOTAL CUBE	

*** SARGENT ***
CAV RETURN FROM REPAIR. RECEIVING ACTIVITIES PROCESS AS D6K RECEIPT.
REMARKS: SBR # 0027 CASREPT

CASREP SARGENT

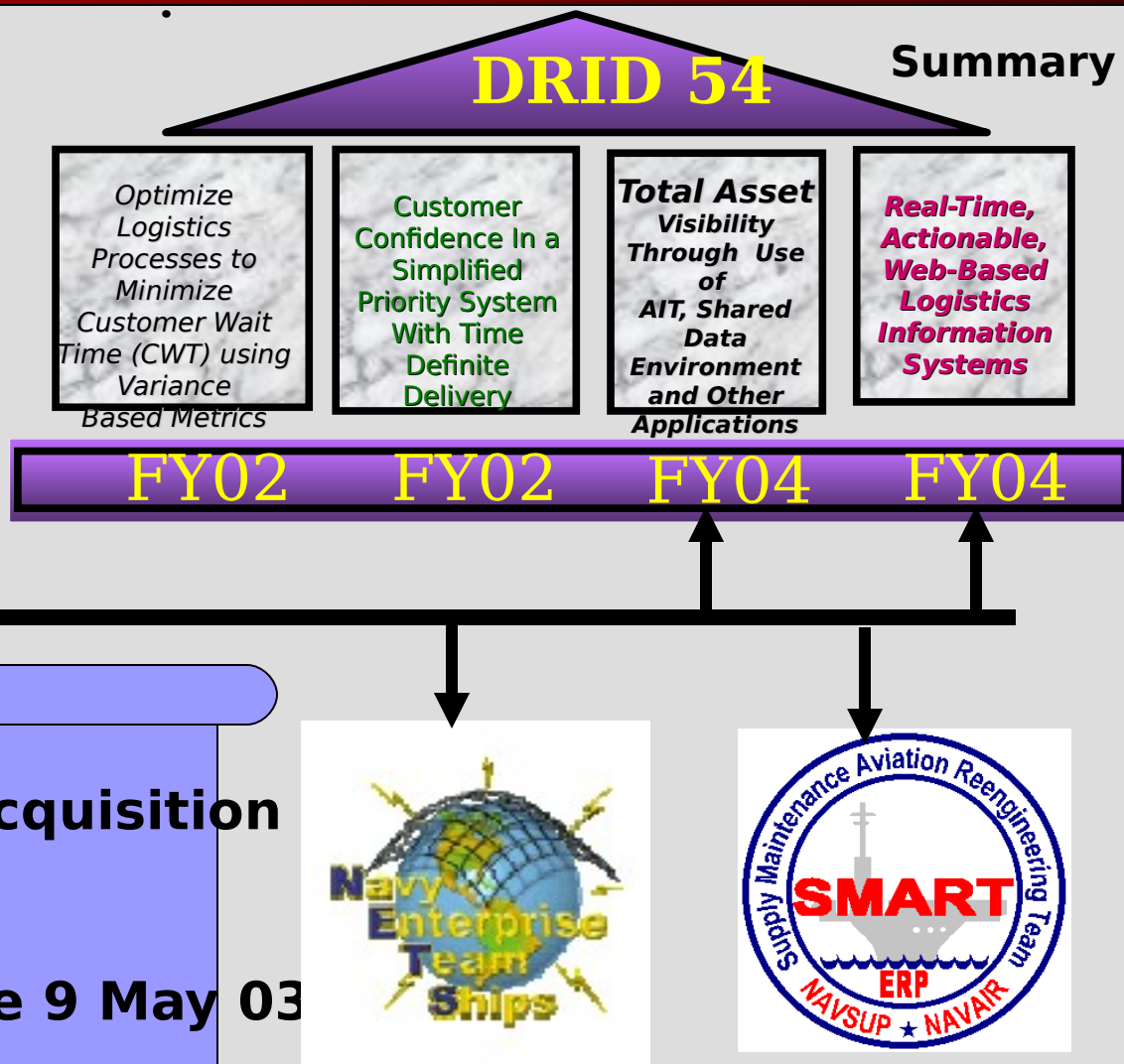
Create IRRD with Serial Number

SIM / SNT Parallel Goals



Complements

- SUPER REG
- DoD 5000.2 Acquisition
- SIM Directive
- ADC 44 & 89
- DoD UID Guide 9 May 03



Wholesale System Reporting S/N

Future

Coming Soon
DSS Reports
SN of
Selected Items
For Receipts/
Issues



Web-enabled



SNT System

SNT WEB
Site
Accesses
Navy
Repository

DDNV 12/8/02 - 3/3/03
DDDC/DDCN 1/12/03 -
3/3/03

Navy Repository

Receipts	W/ SN	W/O SN
DDNV	6	22
DDDC	193	112
DDCN	493	201
Issues		
DDNV	15	9
DDDC	95	164
DDCN	470	314

SNTS \ Asset Visibility \ Retrograde - Microsoft Internet Explorer provided by Navy Marine Corps Intranet

Web page

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Address <https://www.snt.navsup.navy.mil/queries/AssetVisibility/Retrograde/default.shtml> Go Links



Retrograde

Queries | Decision Support | Administration | User Options | Help | Feedback | Log Out
Asset Visibility | Aviation Maintenance | In Transit | Inventory | Shipboard Engineering | Warranty

Search Criteria

Serial Number:

Document Number:

UIC / DODAAC:

NIIN:

Lead TCN:

Search

Reset

[<< Back to Asset Visibility](#)

[Submit a Batch Query](#)

Results

[Retrograde Results](#) > Document Number Tracking Detail

[Export to Microsoft® Excel®](#)

[Printer Friendly Version](#)

	Origin	Ship / ATAC Hub or Node	DOP/DSP
Document Number	N002073093GV48	N002073093GV48	N002073093GV48
NIIN	008773277	008773277	008773277
Serial Number	8862	8862	8862
Quantity		1	1
Condition Code	F	F	F
Activity	N00207 NAVAL AIR STATION	N3307A ATAC AGENT FISC	W24726
Date Received	N/A	10 Apr 2003	21 Apr 2003
Ship To	N3307A ATAC AGENT FISC		N/A
Date Shipped		10 Apr 2003	N/A
LTCN	N/A	V327793044WQ43XXX	N/A
Transportation Mode	N/A	T - Air, Air Freight Forwarder	N/A
RCDN	N/A	N/A	Q9960831136394
Signature	N/A		Morena
(Data Source)	ATAC	ATAC	ATAC/CAV



Reliability



NAVAL SUPPLY SYSTEMS
COMMAND

SNTS \ Aviation Maintenance \ Reliability - Microsoft Internet Explorer

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Address https://www.snt.navsup.navy.mil/queries/AviationMaintenance/Reliability/default.shtml

Decision Support



Reliability

Strong
candidate

Queries | Decision Support | Administration | User Options | Help | Feedback | Log Out
Asset Visibility | Aviation Engineering | Aviation Maintenance | Inventory | Shipboard Engineering | Shipboard Maintenance | Warranty

Search Criteria

Serial Number:

Part Number:

680800-14

CAGE Code:

Type Model Series:

Search

Reset

[<< Back to Aviation Maintenance](#)

Sort: <NONE>

Ascending

Sort

[Export to Microsoft® Excel®](#)

[Printer Friendly Version](#)

	Serial Number	Part Number	CAGE Code	CAGE Name	Type Model Series	Total BCMs	Total Transactions
1	000	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	1
2	0000	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	1
3	00000	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	1
4	187	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	1
5	1EHL011	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	1
6	4KBP005	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	0
7	54672	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	1
8	68080014	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	0
9	765	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	0
10	B0B049	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	1
11	C0105	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	1
12	CAQ-003	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	0
13	CHK00008	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	5
14	CHK008	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	4
15	CRL00027	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	1
16	CXH-005	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	1
17	CXH00005	680800-14	06481	LITTON SYSTEMS INC	E-2C	0	1

Done

Internet



10:10 AM

5

SNT Web Page Query Results

Decision Support

Generate, Collect & Analyze Maintenance Data

SNT Existing Reports

Serial Number Tracking System (SNTS) \ Decision Support System (DSS) \ Maintenance \ Highest Failure - Netscape

File Edit View Go Communicator Help

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Bookmarks Netsite http://www.snt.navsup.navy.mil/dss/maintenance/reports/highest_failure/default.shtml

Internet Lookup NewsCool

UNITED STATES NAVY SERIAL NUMBER TRACKING

Highest Failure Report

Queries Decision Support Administration User Options Help Feedback Log Out

User Path: Decision Support System > Maintenance > Highest Failure Report

Part Number	Cage Code	Cage Name	Serial Number	Total Failure
1 65901-02000-048	78286	SIKORSKY AIRCRAFT CORP	157	4
2 65901-02000-048	78286	SIKORSKY AIRCRAFT CORP	596	4
3 65901-02000-048	78286	SIKORSKY AIRCRAFT CORP	268	3
4 65901-02000-048	78286	SIKORSKY AIRCRAFT CORP	293	3
5 65901-02000-048	78286	SIKORSKY AIRCRAFT CORP	92	3
6 65901-02000-048	78286	SIKORSKY AIRCRAFT CORP	S-92	3

Document Done

You have new mail

Start Supply Chain L Screen Shot Serial Num... Microsoft Pow... Netscape 2:08 PM

Serial Number Tracking System (SNTS) \ Decision Support System (DSS) \ Maintenance \ Highest Cannib - Netscape

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Internet Lookup NewsCool

UNITED STATES NAVY SERIAL NUMBER TRACKING

Highest Cannibalization Report

Queries Decision Support Administration User Options Help Feedback Log Out

User Path: Decision Support System > Maintenance > Highest Cannibalization Report

Serial Number Detail

Part Number Cage Code Cage Name Serial Number Total Cannibalization

Part Number	Cage Code	Cage Name	Serial Number	Total Cannibalization
1 65901-02000-048	78286	SIKORSKY AIRCRAFT CORP	157	4
2 65901-02000-048	78286	SIKORSKY AIRCRAFT CORP	596	4
3 65901-02000-048	78286	SIKORSKY AIRCRAFT CORP	268	3
4 65901-02000-048	78286	SIKORSKY AIRCRAFT CORP	293	3
5 65901-02000-048	78286	SIKORSKY AIRCRAFT CORP	92	3
6 65901-02000-048	78286	SIKORSKY AIRCRAFT CORP	S-92	3

Document Done

Start Supply Chain L Screen Shot Serial Num... Microsoft Pow... Netscape 2:08 PM

Serial Number Tracking System (SNTS) \ Decision Support System (DSS) \ Maintenance \ Highest BCM Rep - Netscape

File Edit View Go Communicator Help

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Bookmarks Netsite http://www.snt.navsup.navy.mil/dss/maintenance/reports/highest_bcm/default.shtml

Internet Lookup NewsCool

UNITED STATES NAVY SERIAL NUMBER TRACKING

Highest BCM Report

Queries Decision Support Administration User Options Help Feedback Log Out

User Path: Decision Support System > Maintenance > Highest BCM Report

Part Number	CAGE Code	CAGE Name	Serial Number	Total Level BCM
1 134338-02-01	36351	SMITHS INDUSTRIES INC	000	9
2 134338-02-01	36351	SMITHS INDUSTRIES INC	2660	3
3 134338-02-01	36351	SMITHS INDUSTRIES INC	1062217	2
4 134338-02-01	36351	SMITHS INDUSTRIES INC	482	2
5 134338-02-01	36351	SMITHS INDUSTRIES INC	1234	2
6 134338-02-01	36351	SMITHS INDUSTRIES INC	9161	2

Document Done

Start Supply Chain L Screen Shot Serial Num... Microsoft Pow... Netscape 2:05 PM

- **Four Phases**

- **Initiate E-2/C-2 Parts Marking**
 - Flight Clearances approved....need Wing approval to Go
- **Warehouse/ASD Bar-coding/CMB**
 - Warehouse totally bar code/ASD bar code and CMB
 - Estimated \$300k....OPN \$\$\$ set aside
 - Need to improve SAP interface with CMB
- **Add bar coded S/N to SAP documentation**
 - Minor SAP software changes required
 - Will generate MMDs and 1348-1 IRRDs whenever part is moved
- **SNT System access to SAP database**
 - Will be first instance of SNT within Navy retail inventory

Summary

- **SNT Project well underway**
- **Aviation Implementation Plan rollout**
 - **NAVAIR/NAVSUP Joint Effort**
 - **Parts marking by Type Model Series of A/C underway**
- **SNTS Web Application on line - accessing live data**
 - **Decision Support and Reliability Modules**
- **H-53 and E-2/C-2 leading the way**